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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/635,263	08/06/2003		Lawrence P. Fletcher	MS001-US	9437	
24222	7590	03/01/2004		EXAMINER		
MAINE &	ASMUS		WILLIAMS, HOWARD L			
100 MAIN STREET P O BOX 3445				ART UNIT	PAPER NUMBER	
NASHUA, NH 03061-3445				2819		
				DATE MAILED: 03/01/2004	DATE MAILED: 03/01/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	10/635,263	FLETCHER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Howard L. Williams	2819					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was reply to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	_,	•					
. ,	, · ·						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-20 is/are pending in the application.	☑ Claim(s) <u>1-20</u> is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-20</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine		·					
	The drawing(s) filed on <u>06 August 2003</u> is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correct							
11) The oath or declaration is objected to by the Ex	aminer, Note the attached Office	Action of form PTO-132.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents							
2. Certified copies of the priority documents							
3. Copies of the certified copies of the prior	•	ed in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
See the attached detailed Chief delich for a list	s. and dominou dopied not redelive						
Attachment(s)	·						
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	5) Notice of Informal P	latent Application (PTO-152)					
Paper No(s)/Mail Date 111403.	6)	_					

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The drawings are objected to because the characters and legends in figure 2 are too small. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The examiner acknowledges receipt of an information disclosure statement on 14 Nov. 2003. An initialed copy of the citation form should accompany this letter.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-14 are rejected under 35 U.S.C. 102(e) as anticipated by Wang et al (US 6,515,542). Wang discloses each item of these claims. The use of "diplexing" in claim 1 line 7 does not alter this reading since it is a verb and the full method plus function is diplexing to produce a sum "signal + noise signal" and Wang clearly sums the input and band-limited noise signals.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 15-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al (US 6,515,542) in view of Chemin et al. (US 4,263,617). Wang discloses the claimed subject matter with the exception of a diplexer to combine the desired signal and filtered noise signal to produce a sum signal. Chemin discloses a diplexer

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providing a sum signal for subsequent use. Exchange of one known component for another known component perform the same type of function would have been obvious to one of skill in the art because the frequency selective nature of a diplexer would provide an additional filtering of the noise to ensure that the noise signal did not overlap the frequency band of interest of the desired signal. Filtering a signal is a time-honored way of doing just that.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Keller (US 5,675,335) and Kasson (US 3,999,129) each disclose a dither addition system where a band-limited noise signal is controllably amplified and summed with an input signal of interest.

Any inquiry concerning this communication should be directed to Howard L. Williams at telephone number 571.272.1815. The Patent and Trademark Office has a new central facsimile number for application specific correspondence intended for entry, it is 703-872-9306.

2/23/04 Voice 571.272.1815 Howard L. Williams Primary Examiner Art Unit 2819